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CENTRAL INTELLIGENCE AGENCY REPORT

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THIS IS UNEVALUATED INFORMATION

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PRODUCTS OF THE AEG TREPTOW PLANT

The "Elektro-Apparate-Werke" of the AEG at Treptow operates five shops in which control devices, rectifiers, measuring instruments, relays, and radio sets are produced. In 1950, production of meters, flat relays, and large-sized rectifiers, for both domestic consumption and export purposes, is to be added. Production for 1950 is to be 60 percent above the 1949 level.

The plant exhibited its most notable products at the Leipzig Fair.

The control device shop displayed the following items.

1. A high-speed switch, known by the trade name "Gearapid," used for the protection of rectifiers, generators, and single-armature convertors for electric railroads and industrial equipment, and with a capacity of 3,000 amperes, 3,000 volts.

2. A distributing system which allows different combinations of circuits utilizing a system of bus bars.

3. A new version of the miniature motor-protection switch, Model Mb6, which does not use any silver but is more efficient than previous models.

4. An improved model of the EMsb 100 motor-protection switch, which has a higher efficiency uses less material and takes up less space than previous models.

5. A new remote-control oil-operated motor-protection switch, Model MSBO 60.

6. An excess current cutoff switch, Model EM 3000.

The rectifier plant is producing:

1. New mercury-vapor rectifiers, air-cooled, with iron vessels and without pumps, designed to operate at 800 volts-1,200 amperes, 1,200 volts-800 amperes, and 3,000 volts-500 amperes. They can be equipped for continuous grid control. All accessory equipment for excitation, ignition, grid blocking, and grid control is located in a joint control box.

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2. Mercury-vapor rectifers with glass vessels for 600 volts-500 amperes, 1,750 volts-350 amperes, 4,000 volts-250 amperes; these rectifiers, which can also be equipped for continuous grid control, consist of a unit resembling a control panel which contains the glass vessel, ventilator, indicating instruments, and the accessory equipment for excitation and ignition.

3. Tungar rectifiers for 15 kilovolts-35 amperes, designed especially for transmitters.

4. Tungar rectifiers for low voltages, for charging batteries used for illumination, electric vehicles, etc.

5. Dry rectifiers for charging automobile batteries.

6. Special rectifiers for telephone batteries, for fully automatic charging and floating battery operation by means of relay control.

7. Dry rectifiers for supplying magnets of all kinds, for relays, for the excitation of electrical machines, for electroplating equipment, and for sound film equipment.

8. Special rectifiers for motion pictures projector arc lamps and searchlights, for heating transmitter tubes, and for producing grid and plate voltages in radio receivers.

The control panel measuring instruments produced at Treptow cover all types from simple voltmeters to synchronizers. Portable instruments for industrial use are also produced. Production of precision galvanometers has been started, while the development work on AC precision instruments is almost completed. The plant also will include the manufacture of current meters in its 1950 production. Electric thermometers, recording thermometers, thermostats, and thermocouples were also exhibited.

The relay shop is to resume production of the following items:

1. Auxiliary AC and DC relays.

2. Indicating relays.

3. Devices for controlling acoustical equipment and for indicating the position of switches, valves, etc.

4. Time relays for AC or DC.

5. Thermic time relays.

6. Time relays with electromagnets and mechanical short-time delay mechanisms.

7. Time relays with synchronous motors and gears, for operation over longer periods.

8. Time indicators registering as low as 0.01 second.

9. Protection relays.

10. Relays for all types of electrical lines and networks.

11. Independent excess-current relays for DC and AC.

12. Current differential relays.

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13. Watt-meter grounding relays.

14. Thermic excess-current relays with a thermic switch dependent on the current and a quick-acting magnetic switch.

15. Relays for current and voltage which can be pre-set.

16. Indicating grounding relays.

17. Reverse current relays for connection to secondary resistances and grounding relays for selective indication of groundings in networks are in preparation. Flat relays, including those for telecommunications purposes, are also being produced.

The radio plant is producing two superheterodyne receivers, developed from the medium-size AT 467 superheterodyne receiver. The new sets are more powerful than earlier models, have been fitted with larger speakers for higher fidelity, especially in the bass register, and are equipped with short-wave receiving bands and magic-eye tuning. The AC-DC version, the AT560GWk3, is equipped with the following set of tubes: UCH 11, UBF 11, UM 11, UCL 11. The UY 11 tube has been replaced by a dry rectifier. The AC receiver AT660WK3 is equipped with the following tubes: ECH 11, EBF 11, EF 11, EM 11, EL 11, AZ 11. The fading compensation operates on three tubes.

In addition to the widely used 75 W junction points, the radio plant is also producing newly developed amplifier units built on the interchangeable part principle. Chokes and transformers of all kinds up to 2.5 kilovolt amperes are also being produced. The chokes for luminescent tubes are of particular interest.

In addition to the production of single and double variable condensers, the production of triple variable condensers has also been started.

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